

WE CLAIM:

CLAIM 1

In a plant for the conversion of a low value feedstock to at least one higher value Fischer-Tropsch (FT) product having at least one reformer and at least one FT reactor, the improvement wherein the at least one reformer includes an electric powered, plasma reforming reactor.

CLAIM 2

The plant of Claim 1 wherein the reformer includes an inductively coupled plasma generator.

CLAIM 3

The plant of Claim 1 wherein the plasma generator operates at frequencies within the range of 0.37-0.44 mHz.

CLAIM 4

The plant of Claim 1 wherein the plasma generator is inductively coupled and operates at frequencies within the range of 0.37 – 0.44 mHz.

CLAIM 5

The plant of Claim 4 further including equipment for injection and treatment of a gaseous substantially hydrocarbon feedstock.

CLAIM 6

The plant of Claim 4 further including equipment for injection and treatment of a liquid carbon-based feedstock.

CLAIM 7

The plant of Claim 4 further including equipment for injection and treatment of a substantially solid carbon-based feedstock.

CLAIM 8

The plant of Claim 1 attached to one of a barge and/or a ship.

CLAIM 9

The plant of Claim 1 attached to one of a barge and/or a ship and including an inductively coupled plasma generator which operates in the range of 0.37-0.44 mHz.

CLAIM 10

The plant of Claim 1 in a "kit" form for assembly including at least a prepackaged, electric plasma powered reformer and a prepackaged FT reactor, the reformer and the FT reactor being predesigned for forming FT products from at least one of a substantially hydrocarbon gas, liquid or solid.

CLAIM 11

The plant of Claim 10 wherein the plasma powered reformer includes an inductively coupled generator which operates at 0.37-0.44 mHz.

CLAIM 12 Cancelled

CLAIM 13 Cancelled

CLAIM 14 Cancelled

CLAIM 15 Cancelled

1 CLAIM 16 Cancelled

2 CLAIM 17 Cancelled

3 CLAIM 18 Cancelled

4 CLAIM 19 Cancelled

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